

REMARKS

Claims 1-7 and 9-14 and 16-18 are pending. By this amendment, claims 4, 7 and 14 are amended and claims 8 and 15 are canceled.

The Office Action rejects claims 1-6 under 35 U.S.C. 102 over Maschmann (US Pat. 6,505,221). This rejection is respectfully traversed.

Claim 1 of the application requires:

1. A method for performing a computation generally expressible in the form

$$d = \sum_{i=0}^{N-1} a(i) * b(i) \text{ comprising:}$$

(a) determining a common factor 'c' such that $d = c \left(\sum_{i=0}^{N-1} a(i) * b'(i) \right)$ wherein at least one of the b'(i)'s is unity;

(b) utilizing at least one MAAC kernel to carry out the computation, wherein the at least one MAAC kernel is utilized as a function of a coefficient b'(i) being unity.

It is respectfully submitted that Maschmann does not disclose at least that the common factor 'c' is determined such that $d = c \left(\sum_{i=0}^{N-1} a(i) * b'(i) \right)$ wherein at least one of the b'(i)'s is unity, as required by claim 1.

Further, it is submitted that Maschmann does not disclose or suggest at least utilizing at least one MAAC kernel to carry out the computation, wherein the at least one MAAC kernel is utilized as a function of a coefficient b'(i) being unity, as further required by claim 1. It is also submitted that Maschmann does not disclose an eight-point IDCT is computed utilizing the expression recited in claim 6. Accordingly, it is submitted that claim 1, and dependent claims 2-6 are not anticipated by Maschmann.

The Office Action rejects claims 7-18 under 35 U.S.C. 102 over Hung (U.S. Pat. 6,530,010). These rejections are respectfully traversed.

It is respectfully submitted that Hung does not disclose at least a computational kernel for carrying out numerical computations, wherein the additional input provided to the adder block is an input datum associated with a unity coefficient and the multiplier block receives an input coefficient. In particular, in Hung, there is no multiplier block that receives an input coefficient, as required by claim 7. Accordingly, claims 7-8 are not anticipated by Hung.

Regarding claim 9 and 17, Hung does not disclose first, second and third inputs to the second adder block as required. Regarding claim 11, Hung does not disclose a system for computation of an IDCT comprising: (a) a data loader block; and (b) a plurality of MAAC kernels, wherein the plurality of MAAC kernels are coupled to the data loader block. Accordingly, claims 9-13 and 17-18 are not anticipated by Hung.

Regarding claim 14, it is submitted that Hung does not disclose at least the adder block receiving a third input, wherein the general expression $d = \sum_{i=0}^{N-1} a(i) * b(i)$ may be expressed as

$$d = c \left(\sum_{i=0}^{M-1} a(i) * b'(i) \right) \text{ where 'c' is a common factor and at least one of the } b'(i)\text{'s is unity.}$$

Accordingly, claims 14 and 16 are not anticipated by Hung.

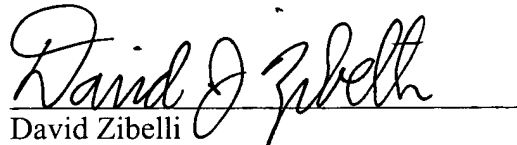
For at least the above reasons, it is submitted that the application is in condition for allowance.

The Examiner is invited to contact the undersigned at (202) 220-4200 to discuss any matter concerning this application.

The Office is authorized to charge any additional fees or credit any overpayments under 37 C.F.R. §§ 1.16 or 1.17 to Deposit Account No. 11-0600.

Respectfully submitted,

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